**Table S8. Primers for site-directed mutagenesis**

|  |  |
| --- | --- |
| SATB1-K175R-F | GGAGGCAAGTCTTCTAGTCGGGGGCAACTGTGTAACTG |
| SATB1-K175R-R | CAGTTACACAGTTGCCCCCGACTAGAAGACTTGCCTCC |
| SATB1-S366L-F | TCTGTGTTGGTCAAAACCTGTTGCTCCAAAGGCT |
| SATB1-S366L-R | AGCCTTTGGAGCAACAGGTTTTGACCAACACAGA |
| SATB1-E407G-F | CTTCCTTTCGGAGGATTCCTGAAAGCAAGCCCTGA |
| SATB1-E407G-R | TCAGGGCTTGCTTTCAGGAATCCTCCGAAAGGAAG |
| SATB1-R410\* | GGGGTCCTCTTCCTTTCAGAGGATTTCTGAAAGCA |
| SATB1-R410\* | TGCTTTCAGAAATCCTCTGAAAGGAAGAGGACCCC |
| SATB1-Q420R-F | GTTTACCAGCAAAGACCGGGATGCAGTCTTGGG |
| SATB1-Q420R-R | CCCAAGACTGCATCCCGGTCTTTGCTGGTAAAC |
| SATB1-E530K-F | TCCAGCGTAACAGCTTGCACAACCATCCCTG |
| SATB1-E530K-R | CAGGGATGGTTGTGCAAGCTGTTACGCTGGA |
| SATB1-E530Q-F | CCAGCGTAACAGCTGGCACAACCATCCCT |
| SATB1-E530Q-R | AGGGATGGTTGTGCCAGCTGTTACGCTGG |
| SATB1-E547K-F | GATCATGGAGAGGTTCTTCCACAGGGTTCTGTTTT |
| SATB1-E547K-R | AAAACAGAACCCTGTGGAAGAACCTCTCCATGATC |
| SATB1-V519L-F | GCTTTTGGTTGCTGCAAGCTTTGCAAACAGTGCTT |
| SATB1-V519L-R | AAGCACTGTTTGCAAAGCTTGCAGCAACCAAAAGC |
| SATB1-A573T-F | CATGGTGATGCACCGTGTTGCTCTCCTGTTC |
| SATB1-A573T-R | GAACAGGAGAGCAACACGGTGCATCACCATG |
| SATB1-P626Hfs\*81-F | GTGGGTTGCCGTGGGGGAGCCGAG |
| SATB1-P626Hfs\*81-R | CTCGGCTCCCCCACGGCAACCCAC |
| SATB1-L682V-F | CTTGGGAAGGTCGACCTGGGCAGACAGAG |
| SATB1-L682V-R | CTCTGTCTGCCCAGGTCGACCTTCCCAAG |
| SATB1-Q694\*-F | TACCGCTGGTTCTAAAAGAACTTGATGATGGTGTACTTG |
| SATB1-Q694\*-R | CAAGTACACCATCATCAAGTTCTTTTAGAACCAGCGGTA |
| SATB1-N736I\*8-F | AAAAAGGGTGTTAGTATTTTATCTTGGACACTCTCTTCCAAATCCT |
| SATB1-N736I\*8-R | AGGATTTGGAAGAGAGTGTCCAAGATAAAATACTAACACCCTTTTT |
| SATB1-K744R-F | CACTGACAGCTCTTCTTCTAGTCGCACTGAAAAAAGGGTGTTAGTA |
| SATB1-K744R-R | TACTAACACCCTTTTTTCAGTGCGACTAGAAGAAGAGCTGTCAGTG |
| SATB2-E396Q-F | TACGCAGAATCTGAGACAACAATCCCTGTGTGCGG |
| SATB2-E396Q-R | CCGCACACAGGGATTGTTGTCTCAGATTCTGCGTA |

**Table S9. Primers for amplifying and subcloning human UBC9 (NM\_194260.2) and SATB1 (NM\_001131010.4).** Sequences of restriction sites are shown in bold, and sequences that were added to extend the linker region between UBC9 and SATB1 are underscored.

|  |  |
| --- | --- |
| UBC9-*BamHI*-F | GAGGGA**GGATCC**TGCTGTCGGGGATCGCCCTCAG |
| UBC9-*XmaI*-R | TCTAGA**CCCGGG**CAGCGCAAGTGAGGGCGCAAACTTCTTGG |
| SATB1-*HindIII*-F | CGGTAC**AAGCTT**TTGGCTGTACTGGATCATTTGAACGAGGC |
| SATB1-*XhoI*-R | CAGTTA**CTCGAG**TCAGTCTTTCAAATCAGTATTAATGTCTG |

**Table S10. Primers to amplify regions that include the SATB1 NMD-escaping truncating variants used for testing for NMD.** The last exon primer set was used for SATB1 p.P626Hfs\*81, p.Q694\* and p.N736Ifs\*8.

|  |  |
| --- | --- |
| SATB1-NMD-R410\*-F | CCTGGGCTCGTATCAACACC |
| SATB1-NMD-R410\*-R | CATCCCTGGCTTTTGGTTGC |
| SATB1-NMD-last\_exon-F | GCCATTTATGAACAGGAGAGCA |
| SATB1-NMD-last exon-R | CAGTATTAATGTCTGTGTTTCCTTCCA |